

**PROCESSING TECHNOLOGIES: KNOWLEDGE OF PROCESSING**

Knowledge of processing focuses on the underpinning concepts associated with processing.

Initially students learn about the operations and practices inherent to processing. Students progress to complex understandings that enable them to explain, evaluate and justify a broad range of operations and practices related to processing.

	LEVEL 6	LEVEL 7	LEVEL 8
<b>LO</b>	<i>Demonstrate understanding of basic techniques involved in processing materials</i>	<i>Demonstrate understanding of advanced techniques involved in processing materials</i>	<p><b>LEARNING OBJECTIVE PROGRESSES TO:</b>  <i>Implement complex procedures to make a processed product</i>  <b>See previous page</b></p>
<b>TEACHER GUIDANCE</b>	<p>To support students to develop understandings about basic techniques involved in processing materials at level 6, teachers could:</p> <ul style="list-style-type: none"> <li>• Provide a range of case studies to demonstrate different processing systems and sequences.</li> <li>• Support students with their understanding of techniques and skills in a processing operation.</li> <li>• Demonstrate safe practices in processing.</li> <li>• Model a range of processing operations such as: measuring; safe disposal of biologically active material; culturing by plating; and controlling of enzymes.</li> </ul>	<p>To support students to develop understandings about advanced techniques involved in processing materials at level 7, teachers could:</p> <ul style="list-style-type: none"> <li>• Support students with their understanding of how advanced techniques are implemented in processing materials.</li> <li>• Present a range of advanced processing operations such as: cell counting; emulsifying; and centrifuging.</li> <li>• Ensure students understand the difference between health and safety in the classroom and industry.</li> </ul>	
<b>INDICATORS</b>	<p>Students can:</p> <ul style="list-style-type: none"> <li>• Explain the relationship between processing operations, tests, and expected outcomes.</li> <li>• Discuss processing operations and tests and their suitability for different materials and/or purposes.</li> <li>• Communicate the need for safe processing practices.</li> </ul>	<p>Students can:</p> <ul style="list-style-type: none"> <li>• Identify advanced techniques used in processing materials.</li> <li>• Describe how processing operations and tests can be combined in a processing sequence.</li> <li>• Explain why specific tests are used in processing operations.</li> </ul>	
<b>AS</b>	<p><b>AS91083 Processing Technologies 1.61</b>  <i>Demonstrate understanding of basic concepts used in processing</i></p>	<p><b>AS91352 Processing Technologies 2.61</b>  <i>Demonstrate understanding of advanced concepts used in processing</i></p>	
	<a href="#">Level 1 Digital Technologies standards &amp; assessment resources</a>	<a href="#">Level 2 Digital Technologies standards &amp; assessment resources</a>	<a href="#">Level 3 Technology achievement standards &amp; assessment resources DRAFT</a>